

**GENERAL NOTES**

- Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts  $\frac{7}{8}$  in.  $\phi$ , holes  $\frac{15}{16}$  in.  $\phi$ , unless otherwise noted.
- Calculated weight of Structural Steel =  
 AASHTO M270 Grade 50 = 985,119 lbs  
 AASHTO M270 Grade 36 = 83,866 lbs
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars designated (E) shall be epoxy coated.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of  $\frac{1}{8}$  in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- Concrete Sealer shall be applied to the designated areas of the abutments.
- All Structural Steel shall be galvanized according to the Special Provision "Hot Dip Galvanizing of Structural Steel." Cost included with Furnishing Structural Steel.
- The Contractor shall design, furnish and install protective armoring systems before operating any equipment over any underground pipelines or gas mains. Armoring system designs are to be submitted for review and approval by each utility owner prior to installation.
- There are existing 138 kV and 345 kV lines within the project limits, the contractor needs to be aware that no outage or protection can be provided to these facilities. The plans include pay items for micropiles for this reason. Per ComEd and OSHA requirements, without the on-site presence of a representative of ComEd, all contract activities must stay 30 feet in any direction from the 345 kV lines and any ComEd conductors and 20 feet from the 138 kV lines. With on-site ComEd supervision, all contract activities must stay 20 feet in any direction from the 345 kV lines and any ComEd conductors and 13 feet from the 138 kV lines.
- The maximum height above the proposed top of bridge deck that equipment will be able to operate without de-energizing overhead ComEd transmission lines and without the onsite presence of a ComEd representative is estimated to be 15 feet.
- Form liner textured surface shall be applied to the wingwalls, retaining walls and noise abatement walls. The finish shall consist of a rolled Ashlar Stone finish and shall have a minimum 0.75 in impression.
- The pattern produced on the exposed surfaces of the concrete wingwalls, retaining walls and the noise abatement walls shall be identical. The concrete stain applied to the surfaces of all of those items shall also be identical. The Contractor shall provide all necessary coordination and direction with its vendor manufacturing the noise abatement walls to assure the same concrete form liners and stain are used for them as those for the cast-in-place wingwalls and retaining walls.

**FOR INFORMATION ONLY**

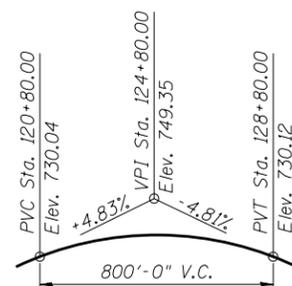
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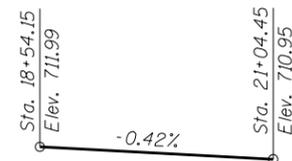
**TOTAL BILL OF MATERIAL**

Item	Unit	Total
Structure Excavation	Cu. Yd.	1,448
Concrete Structures	Cu. Yd.	2,340.3
Concrete Superstructure	Cu. Yd.	1,228.7
Bridge Deck Grooving	Sq. Yd.	2,033
Form Liner Textured Surface	Sq. Ft.	3,159
Protective Coat	Sq. Yd.	4,915
Erecting Structural Steel	L. Sum	1
Stud Shear Connectors	Each	19,008
Reinforcement Bars	Pound	197,600
Reinforcement Bars, Epoxy Coated	Pound	507,780
Bar Splicers	Each	1,350
Bicycle Railing, Special	Foot	516
Bridge Fence Railing (Special)	Foot	188
Parapet Railing, Special	Foot	702
Name Plates	Each	1
Drilled Shaft in Soil	Cu. Yd.	1,092
Drilled Shaft in Rock	Cu. Yd.	59
Preformed Joint Strip Seal	Foot	213
Erecting Elastomeric Bearing Assembly, Type I	Each	32
Erecting Elastomeric Bearing Assembly, Type II	Each	16
Anchor Bolts, 1"	Each	64
Anchor Bolts, 1 1/2"	Each	64
Concrete Sealer	Sq. Ft.	7,429
Geocomposite Wall Drain	Sq. Yd.	993
Micro-piles	Each	92
Micropile Proof Load Test	Each	2
Granular Backfill for Structures	Cu. Yd.	1,324
Drainage Scuppers, DS-12	Each	6
Drainage System	L. Sum	1
Pipe Underdrains for Structures 4"	Foot	329
Staining Concrete Structures	Sq. Ft.	3,159

Note: Bill of Material shown for Bridge quantities only. For Retaining Wall Bills of Material, See Sheets NW-2, SW-2, NE-2 and SE-2.



**PROFILE GRADE - US 34**  
Along E.B. and W.B. P.G.'s



**TOP OF RAIL ELEVATIONS**  
CN RR



USER NAME =	DESIGNED - BAR	REVISED
	CHECKED - AMK	REVISED
PLOT SCALE =	DRAWN - BAR	REVISED
PLOT DATE = 02/28/2014	CHECKED - AMK	REVISED

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, BILL OF MATERIALS, AND INDEX OF SHEETS**  
**STRUCTURE NO. 022-0512**

SHEET NO. S-2 OF S-53 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	652-A		383	165
			CONTRACT NO. 60R06	
ILLINOIS FED. AID PROJECT				